



7/16 DIN Female Hermetically Sealed Connector
Solder Attachment 4 Hole Flange Mount
Terminal, 0.975 inch Hole Spacing

RF Connectors
Technical Data Sheet

PE1947**Configuration**

- 7/16 DIN Female Connector
- 50 Ohms
- Straight Body Geometry
- 4 Hole Flange

Features

- Max. Operating Frequency 7.5 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze
- Contact
- Hermetically Sealed

Applications

- General Purpose Test
- Rack and Panel Mount Applications

Description

Pasternack's PE1947, 7/16 DIN, Standard, connector with solder/solder attachment terminal is part of our full line of RF components available for same-day shipping. Our 7/16 DIN female connector operates up to a maximum frequency of 7.5 GHz and offers excellent VSWR of 1.2:1. This 7/16 DIN 4 hole flange connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our 7/16 DIN female 4 hole flange connector PE1947 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		7.5	GHz
VSWR			1.2:1	
Insertion Loss			0.05	dB
Operating Voltage (AC)			2,700	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			4,000	Vrms
Inner Conductor DC Resistance			0.4	mOhms
Outer Conductor DC Resistance			1.5	mOhms
Insulation Resistance	10,000			MOhms
RF Leakage	128			dB

Mechanical Specifications**Size**

Length

1.48 in [37.59 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Female Hermetically Sealed Connector Solder Attachment 4 Hole Flange Mount Terminal, 0.975 inch Hole Spacing PE1947](#)



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Width	1.26 in [32.00 mm]
Height	1.26 in [32.00 mm]
Weight	0.12 lbs [54.43 g]
Mating Cycles	500 Cycles
Mating Torque	260 to 310 in-lbs [29.38 to 35.03 Nm]
Cable Retention Force	45 lbs 20.41 kg

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Tri-Metal over Copper
Retaining Ring	Brass	Tri-Metal over Copper
Gasket	Silicone	

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method106
Thermal Shock	MIL-STD-202, Method107, Condition B
Salt Spray	MIL-STD-202, Method101, Condition B
Hermetic Seal	1*10-6cc/sec helium at 1atm

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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7/16 DIN Female Hermetically Sealed Connector Solder Attachment 4 Hole Flange Mount Terminal, 0.975 inch Hole Spacing from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

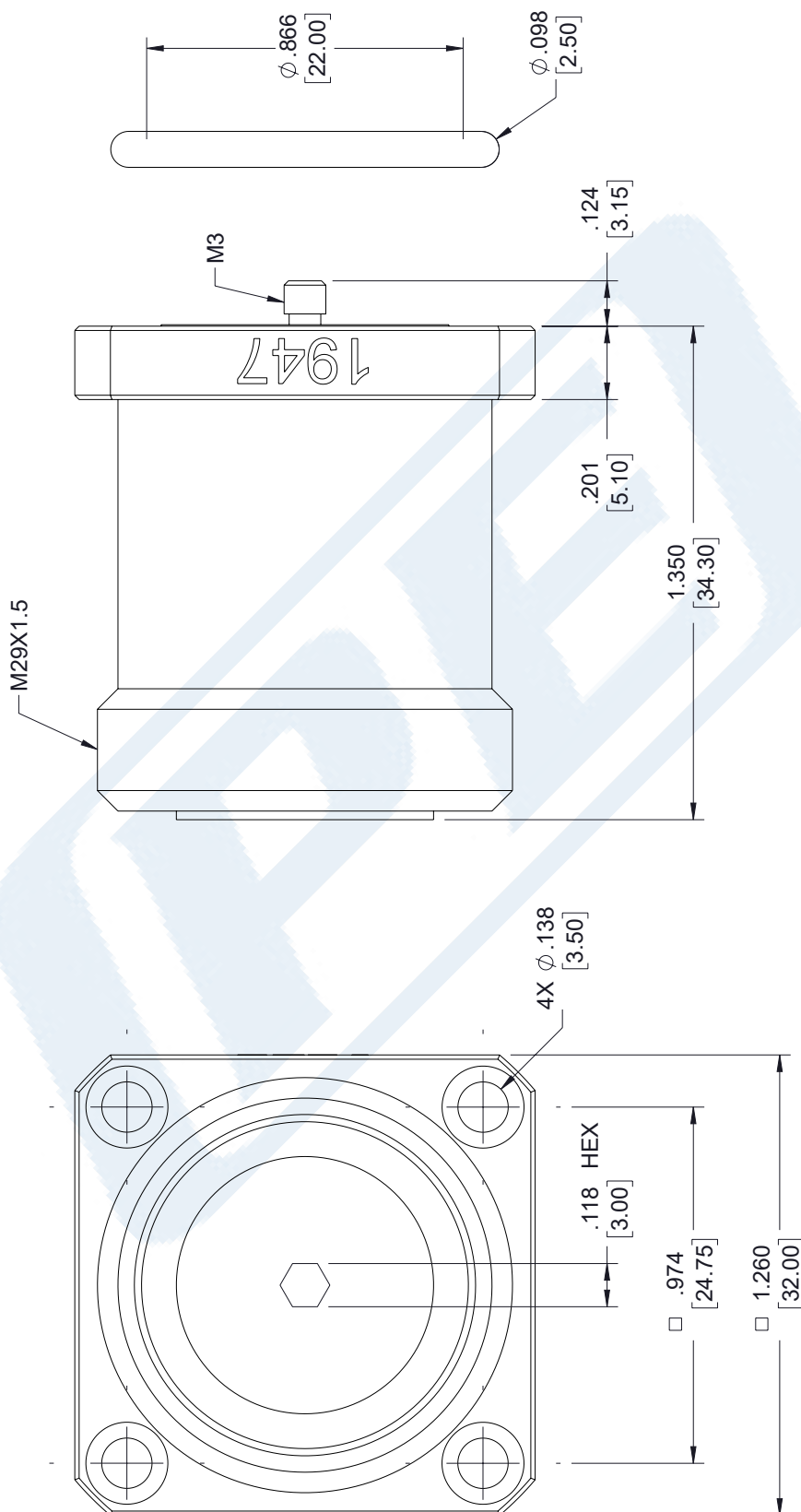
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Female Hermetically Sealed Connector Solder Attachment 4 Hole Flange Mount Terminal, 0.975 inch Hole Spacing PE1947](https://www.pasternack.com/7-16-din-female-terminal-connector-pe1947-p.aspx)

URL: <https://www.pasternack.com/7-16-din-female-terminal-connector-pe1947-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

7/16 DIN Female Hermetically Sealed Connector Solder Attachment
4 Hole Flange Mount Terminal, 0.975 inch Hole Spacing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/12/2022	AGANWANI



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

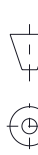
	VALUES	TOLERANCES
.X =	± .2	[.5, .08]
.XX =	± .02	[.51]
.XXX =	± .005	[.13]
FRACTIONS		± 1/32
ANGLES		± 1°

CABLE LENGTH (L) TOLERANCES:

$$\begin{array}{l} L \leq 12 \text{ [305]} = +1 \text{ [25]} / -0 \\ 12 \text{ [305]} < L \leq 60 \text{ [1524]} = +2 \text{ [51]} / -0 \\ 60 \text{ [1524]} < L \leq 120 \text{ [3048]} = +4 \text{ [102]} / -0 \\ 120 \text{ [3048]} < L \leq 300 \text{ [7620]} = +6 \text{ [152]} / -0 \\ 300 \text{ [7620]} < L = +5\%L / -0 \end{array}$$

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THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE
N/A

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
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